

Water Engineering Services FZE



ISO 9001 : 2008 Company

Swimming Pool

Water Quality Control System



ISO 9001 : 2008



Sustainable Water Solutions

A Company you can rely upon

Water Engineering Services FZE is an ISO 9000 company, established in 2011, Located in Sharjah Airport Free Zone specialised in design, manufacture, installation and commissioning of products related to Water and waste Water systems for MENA region.

International exposure in the area of water treatments enables us to be Leaders in this field. Our research team is constantly been updated with most advanced and Latest technologies.

Our successful partnership with reputed US and European companies have made us an market leader in MENA region. To add to this we are crowned with ISO 9001 in year 2012 due to our Excellent quality products and systems.

Products

- Dosing pumps
- Chemical Injection Skids
- Mobile Chemical injection skids
- Gas Chlorination Systems
- Mobile gas chlorination Systems
- Chlorine Gas Scrubber
- Water Quality Measuring Systems
- Swimming Pool water quality measurement systems
- Polymer preparation and dosing systems
- Industrial Water Filters and Softners
- Grey Water Systems
- UV/Ozonation systems
- Water Treatment Chemicals
- Electro Chlorination Systems

Our Services

- Consultancy on Design of chlorine dosing systems
- Operation and Maintenance of water treatment facility
- Retrofitting or revamping of water treatment systems

Automatic PH and Chlorine Dosing Systems for Swimming Pools

The Complete Pool Control's Automatic range of controllers has been developed to provide an economic, innovative control system for swimming Pool, school, leisure club and spa pools.

The range includes amperometric and REDOX based units.

All units are board mounted, easily installed and come complete with a fittings kit.

Main Features

- Plug in and Plug out Design.
- All Electro mechanical equipment mounted on one wall panel skid.
- Two dedicated Automatic dosing Pumps for the chemicals.
- Two individual controller with measuring and control function with easy calibration.
- All functions are indicated on the alphanumeric display.
- Proportional control outputs with PID functionality.
- Accurate amperometric /Redox free chlorine measurement.
- Low Level cut off of the pumps.
- Alarms to indicate high and low levels of chlorine and PH.
- Drip tray to collect the spillage.

Dosing Pumps

- Suitable for Acid (HCL) and Sodium/Calcium Hypochlorite.
- Capacity range from 0.1 LPH to 9LPH upto 10 bar.
- Manual and Automatic operation.
- Complete with foot valve and Injection Nozzle.
- Pumps are from Spain.
- Drip tray to collect the spillage.

Controllers

- Two limit values with delay, assigned to alarm relay
- Two separate PI-controllers
- Dosage check
- Background illuminated two-line LC-Display for measured Value and temperature
- Serial interface RS 485 optional
- Scalable, galvanically isolated 0/4 - 20 mA output
- Display of relay status and error messages



Wall Mounting Skid



Dosing Pumps and chemical tank



Swimming Pool Controllers

Automatic PH and Chlorine Dosing Systems for Swimming Pools (Built in Controller)

The automatic dosing of chlorine and Acid is carried out by the dosing pump which has inbuilt digital controllers. Thus eliminating the expensive controllers and also achieving the desired result in the pool water.

All units are board mounted, easily installed and come complete with a fittings kit.

Main Features

- Multifunction dosing pumps including most dosing operations modes.
- Microcontroller technology, display LCD and digital controls.
- Proportional to external digital pulses: divider $n : 1$; multiplier $1 \times n$.
- Proportional to external analog signal $0 \dots 4 \text{ mA} \div 20 \text{ mA}$ or reverse.
- PPM dosing mode.
- Constant mode with digital controls: imp/min; imp/hour; imp/day.
- The sensor contains platinum and a copper electrode.
- Level alarm output contact: NO/NC .
- Plastic housing PP reinforced .
- IP65 rating (when using connectors IP56)
- PTFE diaphragm
- Air Bleed valve for priming
- Suitable for Acid (HCL) and Sodium/Calcium Hypochlorite.
- Capacity range from 0.1 LPH to 9LPH upto 10 bar.
- Complete with foot valve and Injection Nozzle.
- Drip tray to collect the spillage.



Chemical Storage tanks With Containment Bund (optional)



Wall Mounting Skid



Pumps and chlorine and PH Probe and Housing

Automatic PH and Chlorine Dosing Systems for Swimming Pools (Single Display -PH/Cl2)

The Complete Pool Control's Automatic range of controllers has been developed to provide an economic, innovative control system for swimming Pool, school, leisure club and spa pools.

The range includes Amperometric and REDOX based units.

All units are board mounted, easily installed and come complete with a fittings kit.

Main Features

- Plug in and Plug out Design.
- All Electro mechanical equipment mounted on one wall panel skid.
- Two dedicated Automatic dosing Pumps for the chemicals.
- One Single Controller with measuring and control function with easy calibration.
- All functions are indicated on the alphanumeric display.
- Drip tray to collect the spillage.

Dosing Pumps

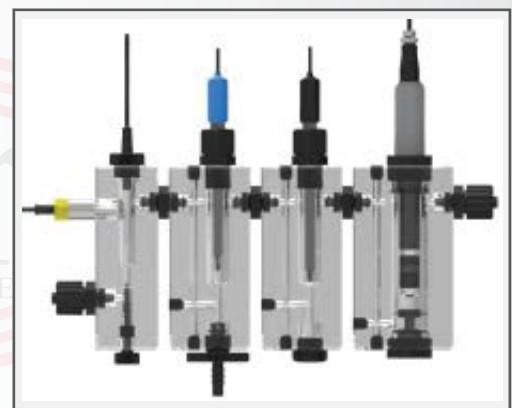
- Suitable for Acid (HCL) and Sodium/Calcium Hypochlorite.
- Capacity range from 0.1 LPH to 9LPH upto 10 bar.
- CONSTANT-ON/OFF pumps and relay control.
- Pump flow rate is obtained by adjusting pulse frequency percentage (%).
- Can be operated with reduction frequency scale range reducing range from 100% to 20% of full Scale.
- Complete with foot valve and Injection Nozzle

Controllers

- Large display 128x64 with graphic display
- Simultaneous measurements, temperature, alarm, flow status Graphic icons for Errors, Alarms, output and Input status
- Universal power supply 90÷240 Vac, mA outputs, adjustable settings and galvanically isolated
- EIGHT relay s (expandable to 12): 4 set-points ON-OFF + 4 Aux/Alarm configurable.
- FOUR of 4÷20mA programmable outputs to drive dosing pumps or data logger.
- Two Level control inputs + Real time Clock/Timer to program CTRL or aux outputs



Wall Mounting Skid



Probe Housing and Sensors



Electric Agitator

UV water Treatment

Ultraviolet -UV water treatment technology is now a recognized and accepted method of swimming pool water treatment, so much so, that it is now fully available in easy to operate systems for small private pools as well as high-load recreation pools, and from hydrotherapy spas to Olympic size competition pools.

The systems that WES UV Systems provide for pools are particularly suitable for users who are sensitive to the usual swimming pool disinfectants, heavy metals from ionic purifiers or allergic to chlorine. Spas may present difficult disinfection problems due to the high bather load and temperature.

Our Range of UV systems cover flow rates ranging from approximately 1m³/hr to 365 m³/hr.



Sand Filter for Swimming Pool

WES fiberglass filters embody the latest in fiberglass winding technology. Fiberglass vessels have a superior mechanical and chemical resistance superior to steel. Fiberglass tanks do not rust or corrode and are able to withstand damage from many types of water treatment chemicals.

Fiberglass vessels offer a number of advantages compared with steel vessels:

Durability:

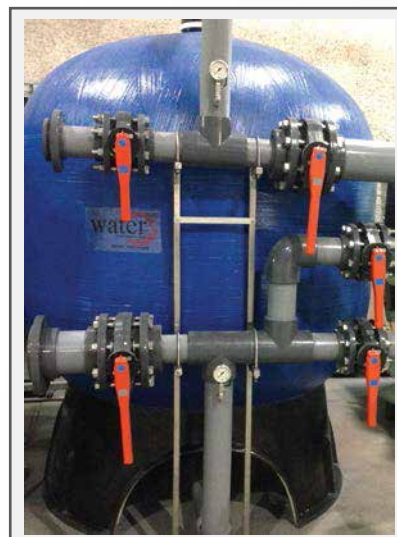
Fiberglass vessels have a mechanical and chemical resistance superior to steel, plus fiberglass does not rust or corrode and is able to withstand damage from many types of water treatment chemicals. Additionally, they do not leave any unsightly stains.

Withstand high pressure

Means they are an ideal solution for a wide range of applications including water treatment and commercial swimming pool facilities.

Easy to maintain

Once installed they are virtually free of maintenance or repairs. This compares with steel vessels, which require the anti-corrosive coating to be maintained periodically, with certified welders required to make repairs to the lining with epoxy coating.





Product Support Services

Fast response with accurate technical support. We have earned a reputation our customers appreciate. User friendly, concise product manuals and trouble -shooting guides are downloadable from our extensive support website. Your technical contact or team can expect fast, friendly assistance via telephone, fax, or e-mail — from basic product inquiries to complex applications challenges. Our comprehensive support network is available to help you meet your objectives.

Product Warranty

Water Engineering Services FZE systems to be free from defects in parts and workmanship for one year. This warranty covers all components under normal use and proper operation. See complete warranty information online.

Field Services

Our Product are engineered to perform flawlessly—but if difficulties arise, Response Now Field Service is only a phone call away. Our carefully trained technical staff is ready to be dispatched throughout the world to tackle your ozone problem quickly and efficiently. Years of on -site trouble -shooting have prepared us for virtually every application challenge.

System Commissioning

Our field service resources are available to assist with setup, startup, and initial commissioning to ensure a smooth launch of your system. Save valuable time and money by utilizing our extensive experience and expertise in commissioning your new ozone system.

Our other Products



Control Panels



Swimming pool disinfection & Filtration system



Static Mixers



Gas Chlorination System



Containerized WTP



Chemical Injection Skid



Polyelectrolyte Preparation System



Chlorine Dioxide Generator System